



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Shu-Ping Yang et al.

Title:

ANTI-CHRONDROSARCOMA COMPOUNDS

Docket No.: 1443.064US1

Filed: June 20, 2003

Examiner: Unknown

Customer No.: 21186

Serial No.: 10/601,059

Due Date: N/A

Group Art Unit: 1646

Confirmation No.: 5526

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

☒ A return postcard.

☒ An Information Disclosure Statement (2 pgs.), Form 1449 (9 pgs.), and copies of 140 cited documents.

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
Customer Number 21186

By: Robin A. Chadwick
Atty: Robin A. Chadwick
Reg. No. 36,477

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 20th day of November, 2003.

Name

Gulim Abilova

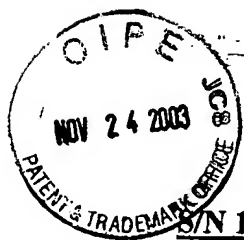
Signature

Gulim Abilova

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

Customer Number 21186

(GENERAL)



S/N 10/601,059

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Shu-Ping Yang et al.	Examiner:	Unknown
Serial No.:	10/601,059	Group Art Unit:	1646
Filed:	June 20, 2003	Docket:	1443.064US1
Title:	ANTI-CHONDROSARCOMA COMPOUNDS		

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Note that several Japanese Patent numbers are cited on the 1449 form. Pursuant to 37 C.F.R. § 1.98 (a)(3)(ii), an English abstract for each is being submitted herewith. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

INFORMATION DISCLOSURE STATEMENT
Serial No :10/601059
Filing Date: June 20, 2003
Title: ANTI-CHONDROSARCOMA COMPOUNDS

Page 2
Dkt: 1443.064US1

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

SHU-PING YANG ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(516) 795-6820

Date Nov. 18, 2003 By Robin A. Chadwick
Robin A. Chadwick
Reg. No. 36,477

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 20th day of November, 2003.

Name Gulim Abilova

Signature Gulim Abilova

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/601,059
Filing Date	June 20, 2003
First Named Inventor	Yang, Shu-Ping
Group Art Unit	1646
Examiner Name	Unknown

Sheet 1 of 9

Attorney Docket No: 1443.064US1

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
	US-4,424,552	01/03/1984	Marcoux, Roland S.	361	306	05/28/1982
	US-5,270,447	12/14/1993	Liotta, Lance A., et al.	530	326	03/01/1989
	US-5,280,106	01/18/1994	Liotta, Lance A., et al.	530	330	02/26/1990
	US-5,372,809	12/13/1994	Liotta, Lance A., et al.	424	185.1	01/31/1992
	US-5,585,356	12/17/1996	Liotta, Lance A., et al.	514	17	08/12/1994
	US-5,698,671	12/16/1997	Stetler-Stevenson, William G., et al.	530	324	08/02/1994
	US-5,770,691	06/23/1998	Fields, Gregg B., et al.	530	328	06/05/1995
	US-5,811,252	09/22/1998	Verheijen, Johan H.	435	23	07/06/1995
	US-5,869,277	02/09/1999	Stetler-Stevenson, William G., et al.	435	28	11/08/1991
	US-6,043,087	03/28/2000	Bini, Alessandra, et al.	435	337	07/25/1997
	US-6,127,139	10/03/2000	Te Koppele, Johannes Maria, et al.	435	24	01/02/1997
	US-6,191,225	02/20/2001	Barkac, Karen A., et al.	525	208	08/16/1999
	US-6,204,043	03/20/2001	Steven, Steven D.	435	226	03/01/1995
	US-6,274,703	08/14/2001	Goldberg, Gregory I.	530	324	08/24/1998
	US-2001/0016333 A1	08/23/2001	Seiki, Motoharu, et al.	435	69.1	12/12/2000
	US-2001/0031478 A1	10/18/2001	Bronstein, Irena, et al.	435	7.5	03/28/2001

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²
—	EP-0917165	05/19/1999	Yasuyuki, Naito, et al.	H01 G	4/30	
—	JP-06213888A	05/05/1994	Okada, Yasunori, et al.	G01 N	33/53	
—	JP-06300757A	10/28/1994	Hayakawa, Taro, et al.	G01 N	33/53	
—	JP-07159402A	06/23/1995	Tani, Hisanori, et al.	G01 N	33/53	
—	JP-08134098A	05/28/1996	Kuroda, Kazuhiko, et al.	C07K	16/18	

EXAMINER

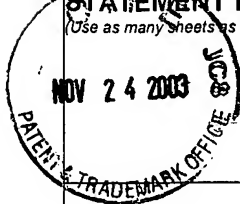
DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. † Applicant's unique citation designation number (optional) ‡ Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Use as many sheets as necessary)



Sheet 2 of 9

Complete if Known

Application Number	10/601,059
Filing Date	June 20, 2003
First Named Inventor	Yang, Shu-Ping
Group Art Unit	1646
Examiner Name	Unknown

Attorney Docket No: 1443.064US1

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²
/	JP-08136548A	05/31/1996	Kuroda, Kazuhiko, et al.	G01 N	33/574	
/	JP-08217800A	08/27/1996	Okada, Yasunori, et al.	C07K	16/40	
/	JP-09023889A2	01/28/1997	Sedlacek, Hans-Harald, et al.	C12 N	15/09	
/	JP-09084589A	03/31/1997	Seiki, Motoharu, et al.	C12 N	15/09	
/	JP-09087299A	03/31/1997	Shinagawa, Akira, et al.	C07K	16/40	
/	JP-09136841A	05/27/1997	Politi, Vincenzo, et al.	A61K	45/00	
/	JP-09206099A	08/12/1997	Kobayashi, Koji, et al.	C12 Q	1/28	
/	JP-09249700	09/22/1997	Liotta, Lance A., et al.	C07K	14/81A	
/	JP-10210982A	08/11/1998	Seiki, Motoharu, et al.	C12 N	15/09	
/	JP-10287700A	10/27/1998	Okada, Ysunori, et al.	C07K	16/40	
/	JP-10313896A	12/02/1998	Kano, Hiroyuki, et al.	C12 Q	1/37	
/	JP-2000270874A	10/03/2000	Lopez-Otin, Carlos, et al.	C12 N	15/09	
/	JP-2001011093A2	01/16/2001	Liotta, Lance A., et al.	C07K	7/08	
/	WO-99/31969	07/01/1999	Neuhold, Lisa A., et al.	A01K		
/	WO-00/20860	04/13/2000	Joyce, Alison, et al.	G01 N	33/53	
/	WO-00/63227	10/26/2001	Zhu, Yuan, et al.	C07 H	21/04	
/	WO-01/10437	02/15/2001	Partridge, Nicola C.	A61K	31/35	
/	WO-01/38558 A2	05/31/2001	Wakelam, Michael J., et al.	C12 Q	1/00	
/	WO-01/62206	08/30/2001	Hazan, Rachel B.	A61K		
/	WO-01/62261	08/30/2001	Richards, Andrew J., et al.	A61K	31/65	
/	WO-90/10228	09/07/1990	Liotta, Lance A., et al.	G01 N33	543	
/	WO-94/10208	05/11/1994	Ahrens, Diane, et al.	C07K	15/28	
/	WO-96/18725	06/20/1997	Greene, John M., et al.	C12 N	1/21	
/	WO-97/25437	07/17/1997	Te Koppele, Johannes M., et al.	C12 Q	1/37	
/	WO-98/04287	02/05/1998	Foged, Niels T., et al.	A61K	39/395	
/	WO-98/12309	03/26/1998	Goldberg, Gregory I.	C12 N	9/64	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. † Applicant's unique citation designation number (optional) ‡ Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/601,059
Filing Date	June 20, 2003
First Named Inventor	Yang, Shu-Ping
Group Art Unit	1646
Examiner Name	Unknown

Attorney Docket No: 1443.064US1

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²
/	WO-98/31818	07/23/1998	Ni, Jian, et al.	C12 N	15/57	
/	WO-98/40475	09/17/1998	Falduto, Michael, et al.	C12 N	9/64	
/	WO-98/42865	10/01/1998	Lopata, Alexander, et al.	C12 Q	1/37	
/	WO-99/05261	02/04/1999	Bini, Alessandra, et al.	C12 N	5/06	
/	WO-99/65519	12/23/1999	Treadwell, Benjamin V., et al.	A61K	39/00	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	/	AGREN, MAGNUS S., "Matirx metalloproteinases (MMPs) are required for re-epithelialization of cutaneous wounds", <u>Archives Dermatol. Res.</u> , 291, (1999), 583-590	
	/	ATTIE, KENNETH M., "Genetic studies in idiopathic short stature", <u>Current Opinion in Pediatrics</u> , 12, (2000), 400-404	
	/	AZZAM, H. S., et al., "Association of MMP-2 activation potential with metastatic progression in human breast cancer cell lines independent of MMP-2 production", <u>J. Natl. Cancer Inst.</u> , 85 (21), (1993), 1758-1764	
	/	BAKER, E. A., et al., "Proteinases, their inhibitors, and cytokine profiles in acute wound fluid", <u>Wound Repair Regen.</u> , 8 (5), (2000), 392-398	
	/	BECKER, JOSEPH W., "Stromelysin-1: Three-dimensional structure of the inhibited catalytic domain and of the C-truncated proenzyme", <u>Protein Science</u> , 4, (1995), 1966-1976	
	/	BEREND, KEITH R., et al., "Association between ratio of matrix metalloproteinase-1 to tissue inhibitor of metalloproteinase-1 and local recurrence, metastasis, and survival in human chondrosarcoma", <u>Journal of Bone & Joint Surgery - American Volume</u> , 80(1), (1999), 893-895	
	/	BHIDE, V. M., et al., "Use of a fluorogenic septapeptide matrix metalloproteinase assay to assess responses to periodontal treatment", <u>J. Periodontol.</u> , 71(5), (2000), 690-700	
	/	BICKETT, D. M., et al., "A high throughput fluorogenic substrate for interstitial collagenase (MMP-1) and gelatinase (MMP-9)", <u>Anal. Biochem.</u> , 212 (1), (1993), 58-64	
	/	BICKETT, D. M., et al., "A high throughput fluorogenic substrate for stromelysin (MMP-3)", <u>Ann. N Y Acad. Sci.</u> , 732, (1994), 351-355	
	/	BLASCHKE, RUDIGER J., et al., "SHOX: Growth, Leri-Weill and Turner Syndromes", <u>TEM</u> , 11, (2000), 227-230	

EXAMINER

DATE CONSIDERED

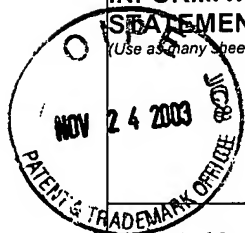
Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)



Sheet 4 of 9

Complete if Known

Application Number	10/601,059
Filing Date	June 20, 2003
First Named Inventor	Yang, Shu-Ping
Group Art Unit	1646
Examiner Name	Unknown

Attorney Docket No: 1443.064US1

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	—	BREMER, C., et al., "In Vivo molecular toarget assessment or matrix metalloproteinase inhibition", <u>Nat. Med.</u> , 7 (6), (2001), 743-748	
	—	BROWN, P. D., et al., "Cellular activation of the 72 kDa type IV procollagenase/TIMP-2 complex", <u>Kidney Int.</u> , 43 (1), (1993), 163-170	
	—	BROWN, REBECCA H. L., et al., "PDGF and TGF- α Act Synergistically to Improve Wound Healing in the Genetically Diabetic Mouse", <u>Journal of Surgical Research</u> , 56, (1994), 562-570	
	—	BROWNER, MICHELLE F., "Matrilysin-Inhibitor Complexes: Common Themes among Metalloproteases", <u>Biochemistry</u> , 34, (1995), 6602-6610	
	—	CABRELE, CHIARA, et al., "Y-receptor affinity modulation by the design of pancreatic..", <u>Peptides</u> , 22, (2001), 365-378	
	—	CALABRESE, EDWARD J., "Cell Migration / Chemotaxis: Biphasic Dose Responses", <u>Critical Reviews in Toxicology</u> , 31 (4&5), (2001), 615-624	
	—	CALVIN, MELISSA, "Cutaneous Wound Repair", <u>Wounds: A Compendium of Clinical Research and Practice</u> , 10 (1), (1998), 12-32	
	—	CHEN, L. C., et al., "Disruption of the cysteine-75 and zinc ion coordination is not sufficient to activate the precursor of human matrix metalloproteinase 3 (stromelysin 1)", <u>Biochemistry</u> , 32 (39), (1993), 10289-10295	
		CHI, YEON SOOK, et al., "Effects of the Chestnut Inner Shell Extract on the Expression of Adhesion Molecules, Fibronectin and Vitronectin, of Skin Fibroblasts in Culture", <u>Archives of Pharmacal Research</u> , 25 (4), (2002), 469-474	
		CHIN, JASON W., et al., "Concerted Evolution of Structure and Function in a Miniature Protein", <u>J. Am. Chem. Soc.</u> , 123, (2001), 2929-2930	
		CHIN, JASON W., et al., "Methodology for Optimizing Functional Miniature Proteins Based on Avian Pancreatic Polypeptide Using Phage Display", <u>Bioorganic & Medicinal Chemistry Letters</u> , 1, (2001), 1501-1505	
		CLARK, RICHARD A., "Wound Repair", <u>The Molecular and Cellular Biology of Wound Repair - 2nd ed.</u> , Plenum Press, NY, (1995), 3-50	
		COLANDREA, TERESA DI, "Epidermal Expression of Collagenase Delays Wound-Healing in Transgenic Mice", <u>The Journal of Investigative Dermatology</u> , (1998), 1029-1033	
		DUIVENVOORDEN, WILHELMINA C., "Use of Tetracycline as an Inhiitor of Matrix Metalloproteinase Activity Secreted by Human Bone-Metastasizing Cancer Cells", <u>Invasion Metastasis</u> , 17, (1997), 312-322	
		DUNCAN, M. E., et al., "Human matrix metalloproteinase-9: activation by limited trypsin", <u>Eur. J. Biochem.</u> , 258 (1), (1998), 37-43	
		FARMER, W. H., et al., "A continuous fluorescent assay for measuring protease activity using natural protein substrate", <u>Anal. Biochem.</u> , 197 (2), (1991), 347-352	
		FERNANDEZ-CATALAN, CARLOS, "Crystal structure of the complex formed	

EXAMINER

DATE CONSIDERED

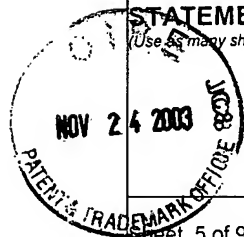
Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Sheet 5 of 9

Complete if Known

Application Number	10/601,059
Filing Date	June 20, 2003
First Named Inventor	Yang, Shu-Ping
Group Art Unit	1646
Examiner Name	Unknown

Attorney Docket No: 1443.064US1

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		by the membrane type 1-matrix metalloproteinase with the tissue inhibitor of metalloproteinases-2, the soluble progelatinase A receptor", <u>The EMBO Journal</u> , 17 (17), (1998), 5238-5248	
		FREIJE, J. J., et al., "Molecular cloning and expression of collagenase-3, a novel human matrix metalloproteinase produced by breast carcinomas", <u>J. Biol. Chem.</u> , 269 (24), (1994), 16766-16773	
		FREIRE, E., et al., "Calorimetrically Determined Dynamics Of Complex Unfolding Transitions in Proteins", <u>Annual Review of Biophysics and Biophysical Chemistry</u> , 19, (1990), 159-188	
		GARBETT, E. A., et al., "Proteolysis in human breast and colorectal cancer", <u>Br. J. Cancer</u> , 81 (2), (1999), 287-293	
		GOMIS-RUTH, FRANZ-XAVER, "Mechanism of inhibition of the human matrix metalloproteinase stromelysin-1 by TIMP-1", <u>Letters to Nature</u> , 389, (1997), 77-81	
		GRAMS, FRANK, "X-ray structures of human neutrophil collagenase complexed with peptide hydroxamate and peptide thiol inhibitors", <u>European Journal of Biochemistry</u> , 228, (1995), 830-841	
		GUEx, NICOLAS, "Swiss-MODEL and the Swiss-Pdb Viewer: An environment for comparative protein modeling", <u>Electrophoresis</u> , 18, (1997), 2714-2723	
		HIGGINS, DESMOND G., "Clustal V: improved software for multiple sequence alignment", <u>Computer applications in the biosciences</u> , 8 (2), (1992), 189-191	
		HILPERT, KAI, et al., "Characterizing and Optimizing Protease/Peptide Inhibitor Interactions.", <u>J. Biochem.</u> , 128, (2000), 1051-1057	
		HOLLIS, THOMAS, et al., "Structure of the gene 2.5 protein, a single-stranded DNA binding...", <u>Department of Biological Chemistry and Molecular Pharmacology</u> , (2001), 9557-9562	
		HOWARD, ERIC W., "Preferential Inhibition of 72- and 92-kDa Gelatinases by Tissue Inhibitor of Metalloproteinases-2", <u>The Journal of Biological Chemistry</u> , 266 (20), (1991), 13070-13075	
		HUANG, WEN, "Folding and characterization of the amino-terminal domain of human tissue inhibitor of metalloproteinases-1 (TIMP-1) expressed at high yield in E. coli", <u>FEBS Letters</u> , 384, (1996), 155-161	
		ITOH, M., et al., "Flow injection analysis for measurement of activity of matrix metalloproteinase-7 (MMP-7)", <u>J. Pharm. Biomed. Anal.</u> , 15 (9-10), (1997), 1417-1426	
		KARLSSON, ROBERT, et al., "Experimental Design for Kinetic Analysis of Protein-Protein Interactions with surface plasmon resonance biosensors", <u>Journal of Immunological Methods</u> , 200, (1997), 121-133	
		KERKELA, E., et al., "Human macrophage metalloelastase (MMP-12)	

EXAMINER

DATE CONSIDERED

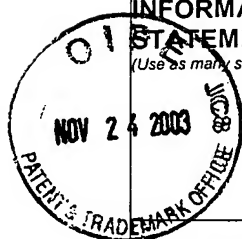
Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number	10/601,059
Filing Date	June 20, 2003
First Named Inventor	Yang, Shu-Ping
Group Art Unit	1646
Examiner Name	Unknown

Sheet 6 of 9

Attorney Docket No: 1443.064US1

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		expression is induced in chondrocytes during fetal development and malignant transformation", <u>Bone</u> , 29(5), (2001), 487-493	
		KNAUPER, V., et al., "Biochemical characterization of human collagenase-3", <u>J. Biol. Chem.</u> , 271 (3), (1996), 1544-1550	
		KNOX, J. D., et al., "Matrilysin expression in human prostate carcinoma.", <u>Mol. Carcinog.</u> , 15 (1), (1996), 57-63	
		LAKOWICZ, JOSEPH R., "Energy Transfer", <u>Principles of Fluorescence Spectroscopy</u> , Chapter 10, (1983), 303-339	
		LEE, P. P., et al., "Functional role of matrix metalloproteinases (MMPs) in mammary epithelial cell development", <u>J. Cell Physiol.</u> , 188 (1), (2001), 75-88	
		LEVIT, SHIMON, et al., "Ribonucleas S-Peptide", <u>The Journal of Biological Chemistry</u> , 251 (5), (1976), 1333-1339	
		LEVY, DANIEL E., "Matrix Metalloproteinase Inhibitors: A Structure-Activity Study", <u>Journal of Medicinal Chemistry</u> , 41, (1998), 199-223	
		LI, J., et al., "Structure of full-length porcine synovial collagenase reveals a C-terminal domain containing a calcium-linked, four-bladed b-propeller", <u>Structure</u> , 3 (6), (1995), 541-549	
		LIBSON, ANDREW M., "Crystal structure of the haemopexin-like C-terminal domain of gelatinase A", <u>Nature Structural Biology</u> , 2 (11), (1995), 938-942	
		LOFAS, STEFAN, "Dextran modified gold for surfaces for surface plasmon resonance sensors: immunoreactivity of immobilized antibodies and antibody-surface interaction studies", <u>Colloids and Surfaces B: Biointerfaces</u> , 1, (1993), 83-89	
		MELCHIORI, A., et al., "Inhibition of tumor cell invasion by a highly conserved peptide...", <u>Cancer Res.</u> , 58 (8), (1992), 2353-2356	
		MORTON, THOMAS A., "Interpreting Complex Binding Kinetics from Optical Biosensors: A Comparison of Analysis by Linearization, the Integrated Rate Equation, and Numerical Integration", <u>Analytical Biochemistry</u> , 227, (1995), 176-185	
		MOSES, M. A., "Temporal Study of the Activity of Matrix Metalloproteinases and Their Endogenous Inhibitors During Wound Healing", <u>Journal of Cellular Biochemistry</u> , 60, (1996), 379-386	
		NAGASE, H., et al., "Design and characterization of fluorogenic substrate selectively hydrolyzed by stromelysin 1 (matrix metalloproteinase-3)", <u>J. Biol. Chem.</u> , 269 (33), (1994), 20952-20957	
		O'CONNELL, JAMES P., et al., "Analysis of the role of the COOH-terminal domain in the activation, proteolytic activity, and tissue inhibitor of metalloproteinase interactions of gelatinase B", <u>J. Biol. Chem.</u> , 269 (21), (1994), 14967-14973	
		O'MEARA, S. M., et al., "Systematic review of antimicrobial agents used for	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/601,059
Filing Date	June 20, 2003
First Named Inventor	Yang, Shu-Ping
Group Art Unit	1646
Examiner Name	Unknown

Attorney Docket No: 1443.064US1

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		chronic wounds", <u>British Journal of Surgery</u> , 88 (1), (2001), 4-21	
		O'SHANNESSY, DANIEL J., "Determination of Rate and Equilibrium Binding Constants for Macromolecular Interactions Using Surface Plasmon Resonance: Use of Nonlinear Squares Analysis Methods", <u>Analytical Biochemistry</u> , 212, (1993), 457-468	
		ODAKE, SHINJIRO, "Inhibition of matrix metalloproteinase by peptidyl hydroxamic acids", <u>Biochemical and Biophysical Research Communications</u> , 199 (3), (1994), 1442-1446	
		OHTSUKA, Y., et al., "MIP-2 secreted by epithelial cells increases neutrophil and lymphocyte recruitment in the mouse intestine", <u>Gut</u> , 49 (4), (2001), 526-533	
		OKADA, Y., et al., "Matrix metalloproteinase 9 (92-kDa gelatinase/type IV collagenase) from HT 1080 human fibrosarcoma cells....", <u>J. Biol. Chem.</u> , 267 (30), (1992), 21712-21719	
		OLSON, MATTHEW W., "Kinetic Analysis of the Binding of Human Matrix Metalloproteinase-2 and -9 to Tissue Inhibitor of Metalloproteinase (TIMP)-1 and TIMP-2", <u>The Journal of Biological Chemistry</u> , 272 (47), (1997), 29975-29983	
		POSTLETHWAITE, ARNOLD E., et al., "Fibroblast Chemoattractants", <u>Methods in Enzymology</u> , 163, (1988), 694-707	
		RAZA, SAADIA L., et al., "Matrix metalloproteinases: Pro and anti-angiogenetic activities", <u>Chemical Abstracts 14-Mammalian Pathological Biochemistry</u> , 135 (4), (2001), 483	
		REINEMER, PETER, "Structural implications for the role of the N terminus in the 'superactivation' of collagenases", <u>FEBS Letters</u> , 338, (1994), 227-233	
		RENIL, MANAT, et al., "Flourescent quenched peptide libraries as tool for identification...", <u>Chemical Abstracts 7-Enzymes</u> , 129 (26), (1998), 218	
		SAARIALHO-KERE, U.K. , "Patterns of matrix metalloproteinase and TMP expression in chronic ulcers", <u>Archives of Dermatological Research</u> , 290, (1998), S47-S54	
		SAKAMOTO, AKIO, et al., "Expression of membrane type 1 matrix metalloproteinase, matrix metalloproteinase 2 and tissue inhibitor of metalloproteinase 2 in human cartilaginous tumors with special emphasis on mesenchymal and dedifferentiated chondrosarcoma", <u>Journal of Cancer Research & Clinical Oncology</u> , 125(10), (1999), 541-548	
		SANG, Q. A., et al., "Activation of Human Progelatinase A by collagenase and matrilysin...", <u>J. Protein Chem.</u> , 15 (3), (1996), 243-253	
		SAYLE, ROGER A., "RASMOL: biomolecular graphics for all", <u>Trends in Biochemical Sciences</u> , 20, (1995), 333-379	
		SEGEL, IRWIN H., "Kinetics of Unireactant Enzymes", <u>Enzyme Kinetics</u> , Chapter 2, (1975), 18-99	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/601,059
Filing Date	June 20, 2003
First Named Inventor	Yang, Shu-Ping
Group Art Unit	1646
Examiner Name	Unknown

Sheet 8 of 9

Attorney Docket No: 1443.064US1

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		SHAPIRO, S. D., et al., "Activation of the 92-kDa gelatinase by stromelysin and 4-aminophenylmercuric acetate...", <u>J. Biol. Chem.</u> , 270 (11), (1995), 6531-6536	
		SODERSTROM, M., et al., "Expression of matrix metalloproteinases and tissue inhibitors of metalloproteinases in human chondrosarcomas", <u>APMIS</u> , 109(4), (2001), 305-315	
		STACK, M. SHARON, et al., "Fluorescence quenching studies of matrix metalloproteinases (MMPs): evidence for structural rearrangement of the proMMP-2/TIMP-2 complex upon mercurial activation", <u>Arch. Biochem. Biophys.</u> , 333 (1), (1996), 163-169	
		STAIANO-COICO, LISA, et al., "Wound Fluids: A Reflection of the State of Healing", <u>Ostomy Wound Management</u> , 46, (2000), 85S-93S	
		STETLER-STEVENSON, W. G., et al., "Inhibition of human type IV collagenase by a highly conserved peptide sequence derived from its prosegment", <u>Am. J. Med. Sci.</u> , 302 (3), (1991), 163-170	
		STETLER-STEVENSON, W. G., et al., "The activation of human type IV collagenase proenzyme...", <u>J. Biol. Chem.</u> , 264 (3), (1989), 1353-1356	
		SU, JUI-LAN, "Monoclonal Antibodies against Human Collagenase and Stromelysin", <u>Hybridoma</u> , 14 (4), (1995), 383-390	
		TAYLOR, KENNETH B., "The Mechanism of Inhibition of Collagenase by TIMP-1", <u>The Journal of Biological Chemistry</u> , 271 (39), (1996), 23938-23945	
		TE, KOPPELE, et al., "Method for assaying proteolytic enzymes using fluorescence...", <u>Chemical Abstracts 7-Enzymes</u> , 127 (11), (1997), 241	
		TUUTTILA, ARI, "Three-dimensional Structure of Human Tissue Inhibitor of Metalloproteinases-2 at 2.1 Å Resolution", <u>Journal of Molecular Biology</u> , 284, (1998), 1133-1140	
		VAALAMO, MAARIT, "Distinct populations of stromal cells express collagenase-3 (MMP-13) and collagenase-1 (MMP-1) in chronic ulcers but not in normally healing wounds", <u>The Journal of Investigative Dermatology</u> , 109 (1), (1997), 96-101	
		VAALAMO, MAARIT, "Patterns of matrix metalloproteinase and TIMP-1 expressions in chronic and normally healing human cutaneous wounds", <u>British Journal of Dermatology</u> , 135, (1996), 52-59	
		VERHEIJEN, J. H., et al., "Modified proenzymes as artificial substances for proteolytic...", <u>Biochem J.</u> , 323, (1997), 603-609	
		WECKROTH, MIINA, "Matrix Metalloproteinases, Gelatinase and Collagenase, in Chronic Leg Ulcers", <u>The Journal of Investigative Dermatology</u> , 106 (5), (1996), 1119-1123	
		WILL, H., et al., "The soluble catalytic domain of membrane type 1 matrix metalloproteinase cleaves the propeptide of progelatinase A and initiates autoproteolytic activation. Regulation by TIMP-2 and TIMP-3", <u>J. Biol. Chem.</u> ,	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/601,059
Filing Date	June 20, 2003
First Named Inventor	Yang, Shu-Ping
Group Art Unit	1646
Examiner Name	Unknown

Sheet 9 of 9

Attorney Docket No: 1443.064US1

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		271 (29), (1996), 17119-17123	
		WOJTOWICZ-PRAGA, SLAWOMIR M., "Matrix Metalloproteinase Inhibitors", Investigative New Drugs, 15, (1997), 61-75	
		WYSOCKI, ANNETTE B., et al., "Wound Fluid From Chronic Leg Ulcers Contains Elevated Levels Of Metalloproteinases MMP-2 and MMP-9", <u>The Journal of Investigative Dermatology</u> , 101 (1), (1993), 64-68	
		WYSOCKI, ANNETTE B., "Wound fluids and the pathogenesis of chronic wounds", <u>Journal of WOCN</u> , 23 (6), (1996), 283-290	

EXAMINER**DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached